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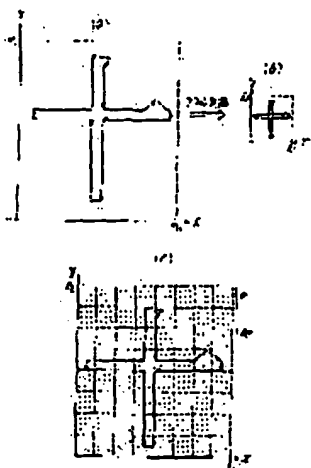
## (54) CHARACTER PATTERN DATA GENERATING METHOD

(57) Abstract:

PURPOSE: To realize the reduction of a memory use quantity and the improvement of the quality of display characters at the same time by generating character pattern data with gradations for specific picture elements for an output device from contour information on characters having specific-quantity coordinate values in a coordinate space and outputting the data.

CONSTITUTION: Contour data on a character to be outputted, i.e. '+' shown in a figure is read out of the memory of a storage device. Various character data are stored in the storage device as contour data having  $m1 \times m2$  coordinate values an xy-coordinates previously. Further, the read contour data on the characters having the  $m1 \times m2$  coordinate values are deformed by affine transformation into character patterns of necessary size, i.e.  $11 \times 12$  and

when there are (n) gradations, necessary memory size is reduced by the deformation to the minimum integer which is not less than the square root of (n). Consequently, high-definition character patterns can be held with small memory capacity and the quantity of output characters is improved.



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